

CLAIMS

1. A method for improving performances of a mobile radiocommunication system using a power control algorithm for controlling a transmit power according to a transmission quality target value, said method comprising, upon the occurrence of a significant change in the required transmit power, bypassing said power control algorithm by changing the transmit power according to a corresponding change in the required transmission quality target value.

2. A method according to claim 1, wherein said significant change in the required transmit power includes a change in the transmission rate.

3. A method according to claim 1, wherein said corresponding change in the required transmission quality target value has a predetermined value.

4. A method according to claim 3, wherein said predetermined value is regularly updated.

5. A method according to claim 1, wherein said transmission quality is represented by a signal-to-interference ratio.

6. A method according to claim 1, wherein said mobile radiocommunication system is of CDMA type.

7. A method according to claim 1, wherein said power control is performed in the uplink transmission direction of said mobile radiocommunication system.

8. A method according to claim 1, wherein said power control is performed in the downlink transmission direction of said mobile radiocommunication system.

9. A mobile station comprising, for performing a method according to claim 7:

- means for bypassing said power control algorithm, by changing the transmit power according to a corresponding change in the required transmission quality target value, upon the occurrence of a significant change in the required transmit power.

10. A mobile station according to claim 9, wherein said means include a look-up table, containing predetermined values of corresponding changes in the required transmission quality target value, corresponding to different significant changes in the required transmit power.

11. A mobile radiocommunication network entity comprising, for performing a method according to claim 7:

- means for correspondingly changing the required transmission quality target value, upon the occurrence of a significant change in the required transmit power.

12. A mobile radiocommunication network entity according to claim 11,
5 wherein said means include a look-up table, containing predetermined values of corresponding changes in the required transmission quality target value, corresponding to different significant changes in the required transmit power.

13. A mobile radiocommunication network entity comprising, for performing a method according to claim 8:

10 - means for bypassing said power control algorithm, by changing the transmit power according to a corresponding change in the required transmission quality target value, upon the occurrence of a significant change in the required transmit power.

14. A mobile radiocommunication network entity according to claim 13,
15 wherein said means include a look-up table, containing predetermined values of corresponding changes in the required transmission quality target value, corresponding to different significant changes in the required transmit power.

15. A mobile station comprising, for performing a method according to claim 8:

20 - means for correspondingly changing the required transmission quality target value, upon the occurrence of a significant change in the required transmit power.

16. A mobile station according to claim 15, wherein said means include a look-up table, containing predetermined values of corresponding changes in the
25 required transmission quality target value, corresponding to different significant changes in the required transmit power.